



Appl. No. 09/916,091  
Amdt. Dated, Dec.30, 2003  
Reply to Office action of Jan. 2, 2003



# EXHIBIT A

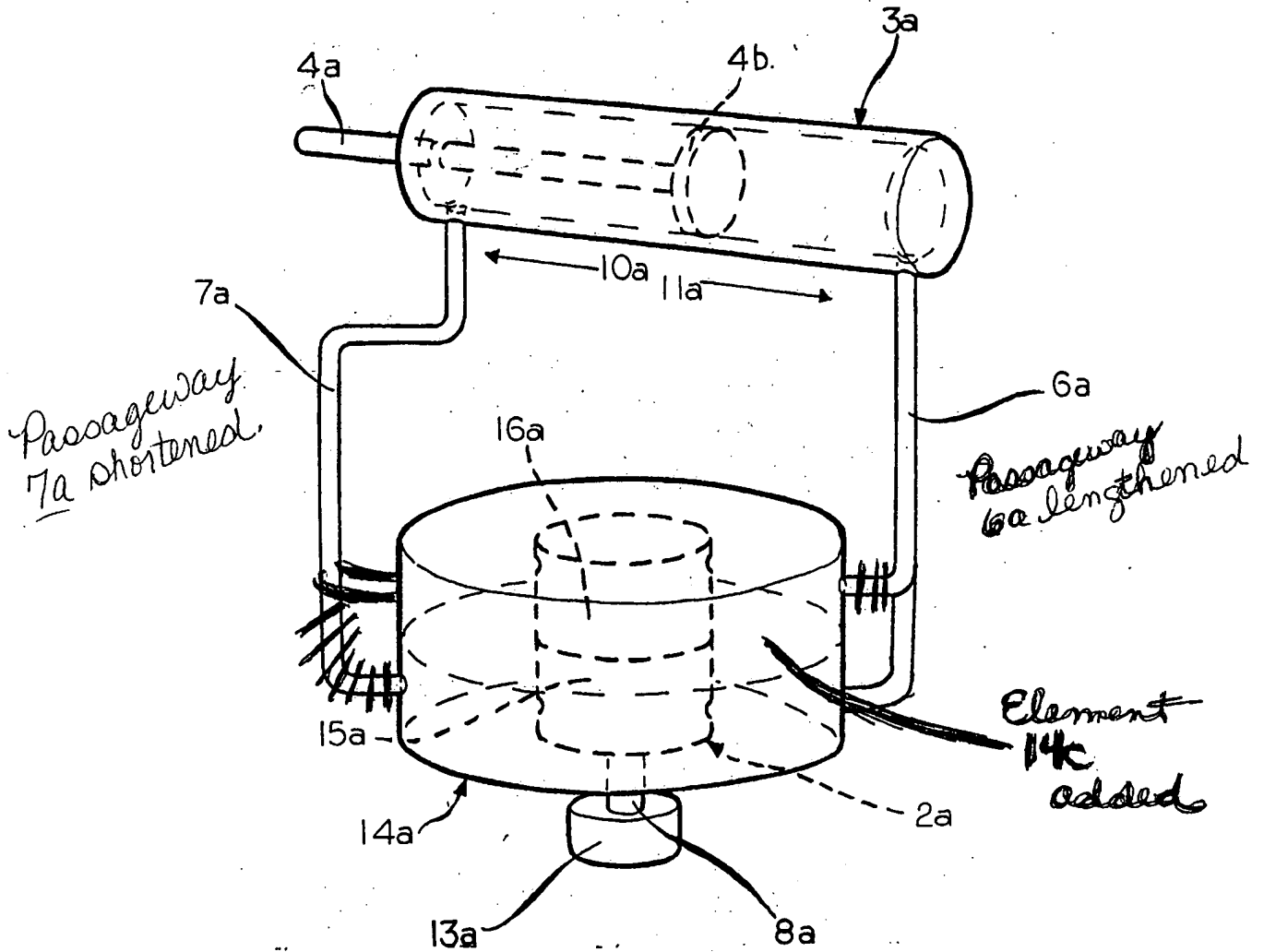
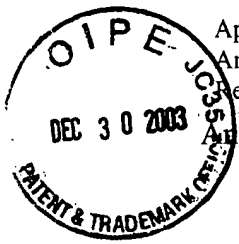


FIG.3



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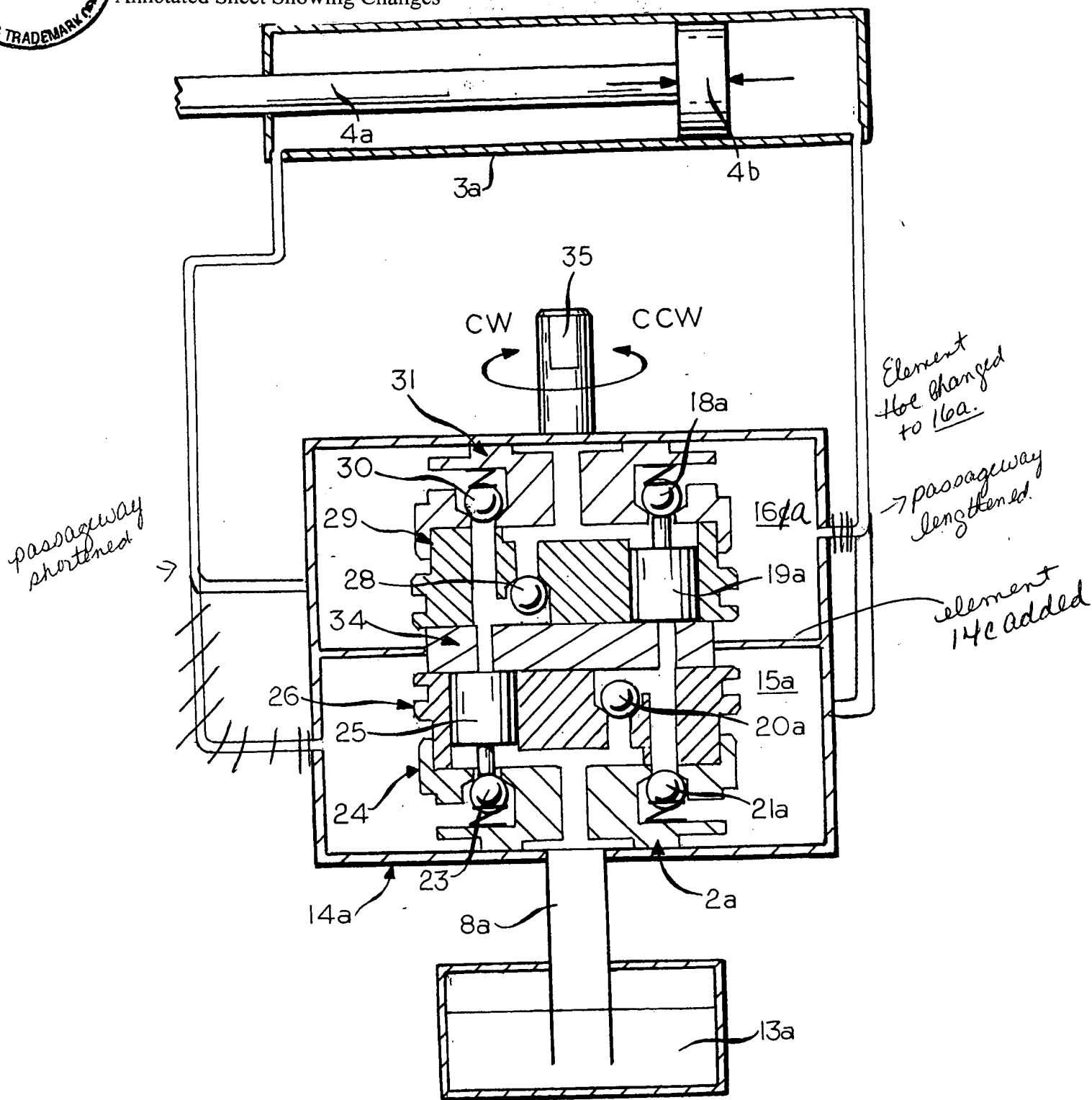


FIG.4

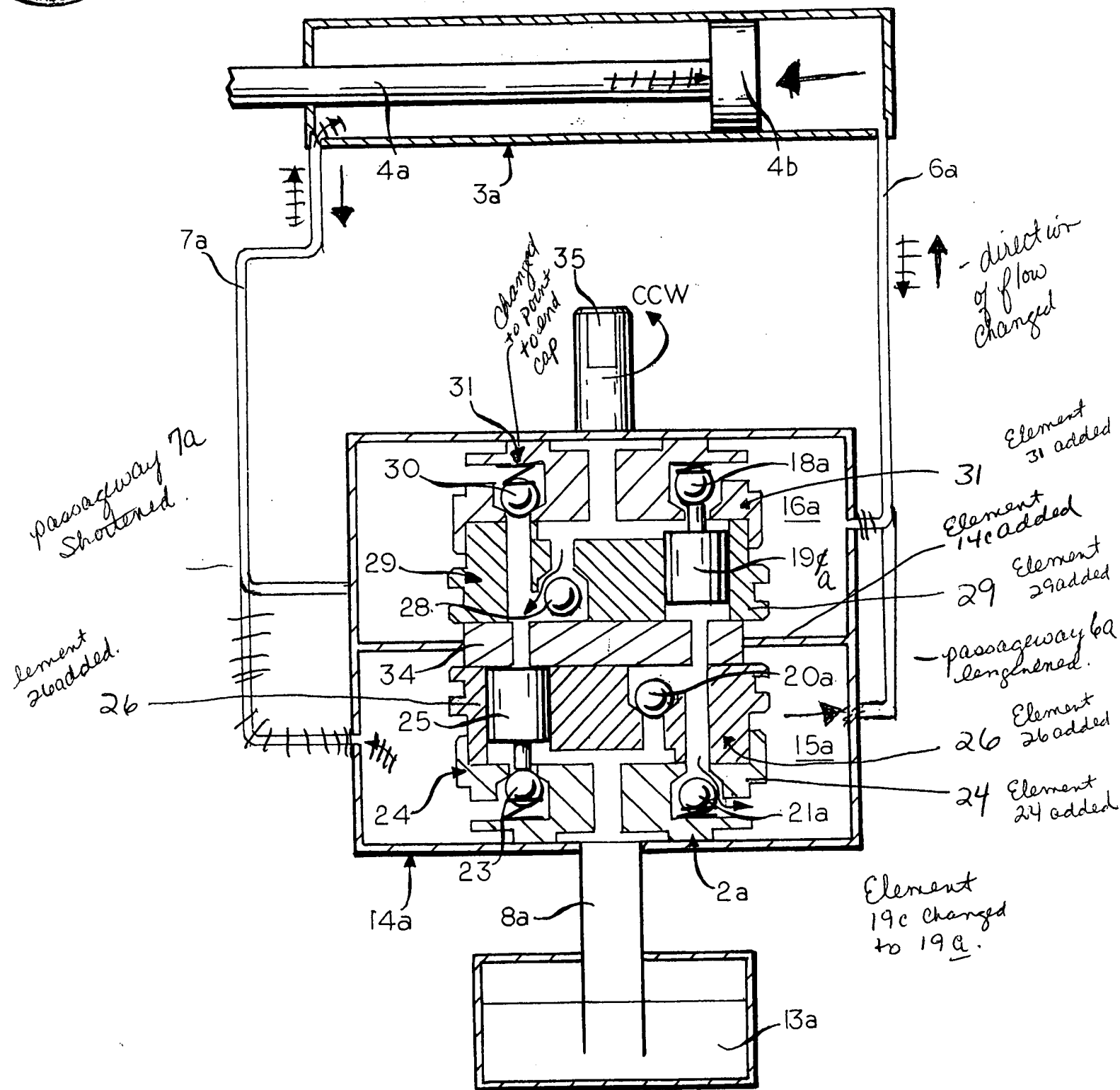
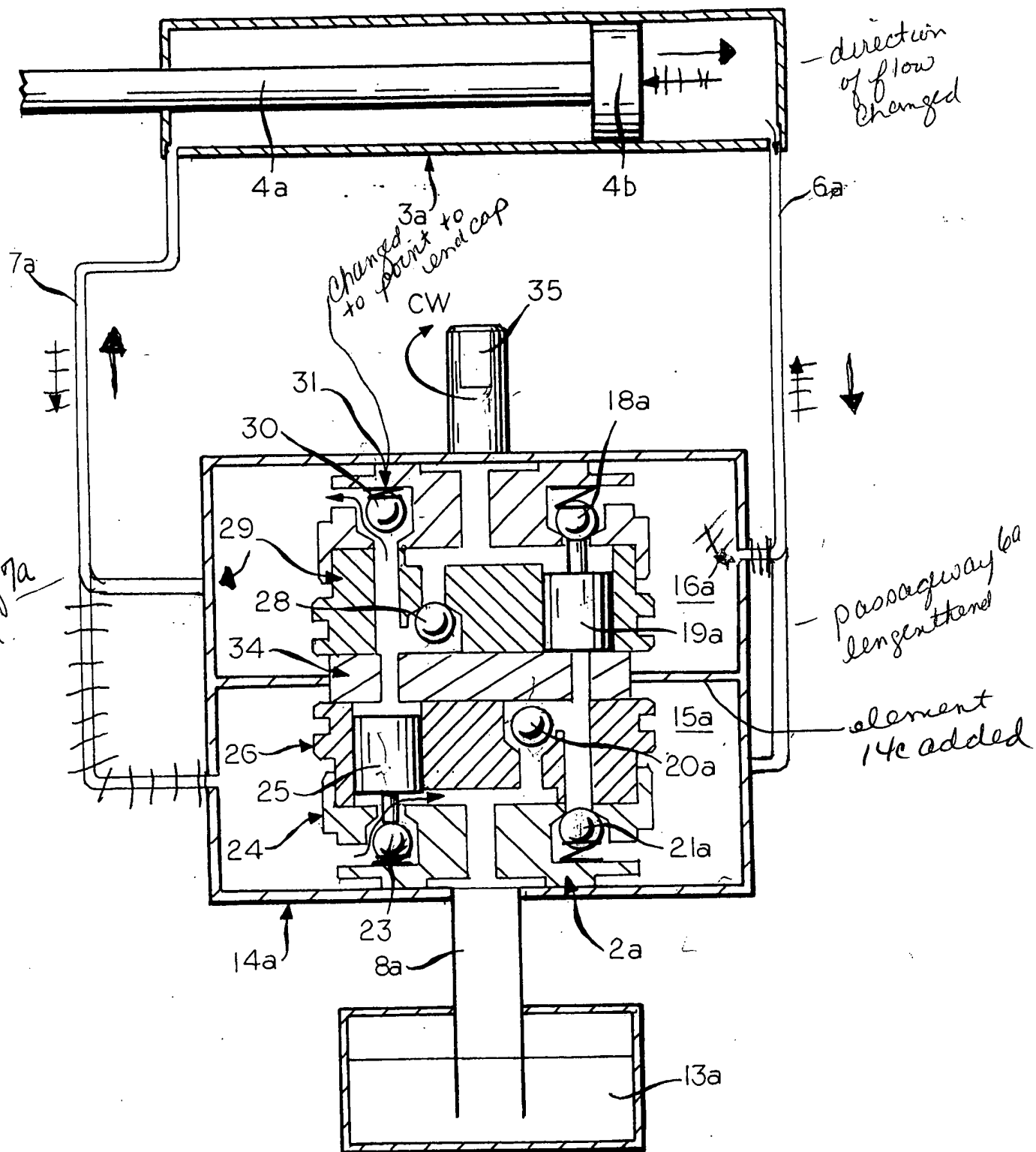


FIG.5





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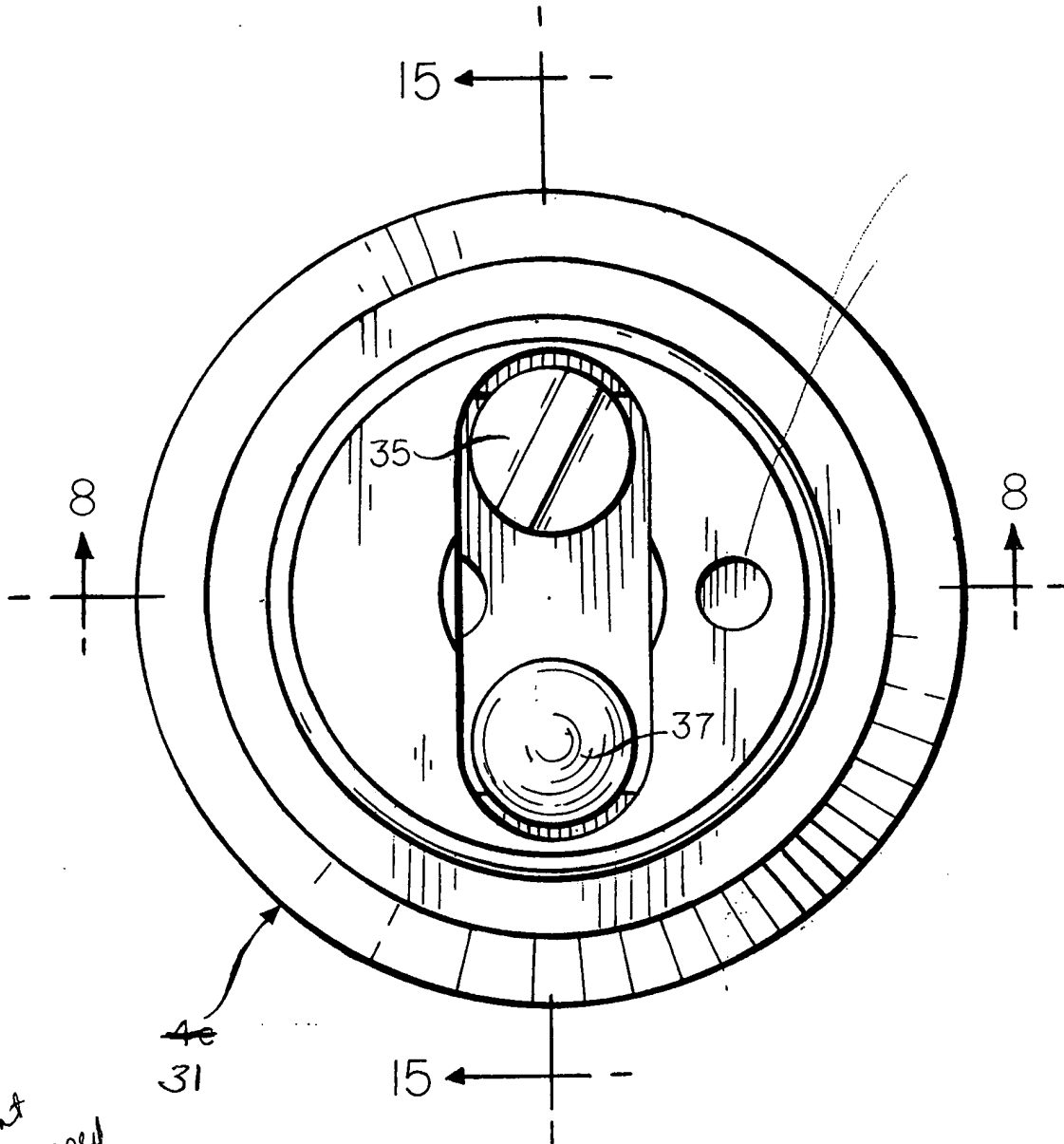
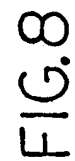


FIG.7

Element  
4e changed  
to 31

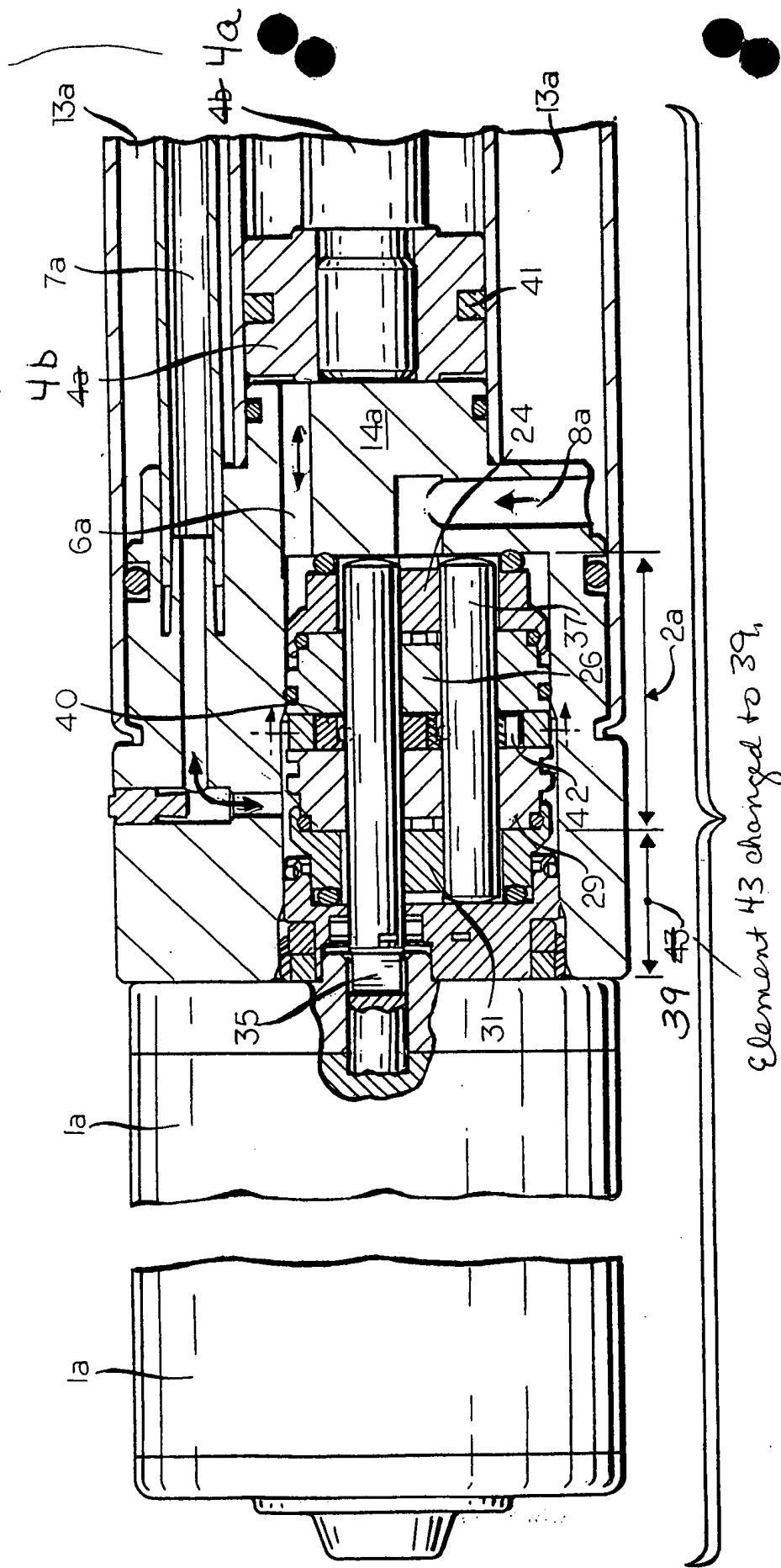


Element  $^{14}\text{G}$  added:

140

Element  
4b changed  
to 4a.

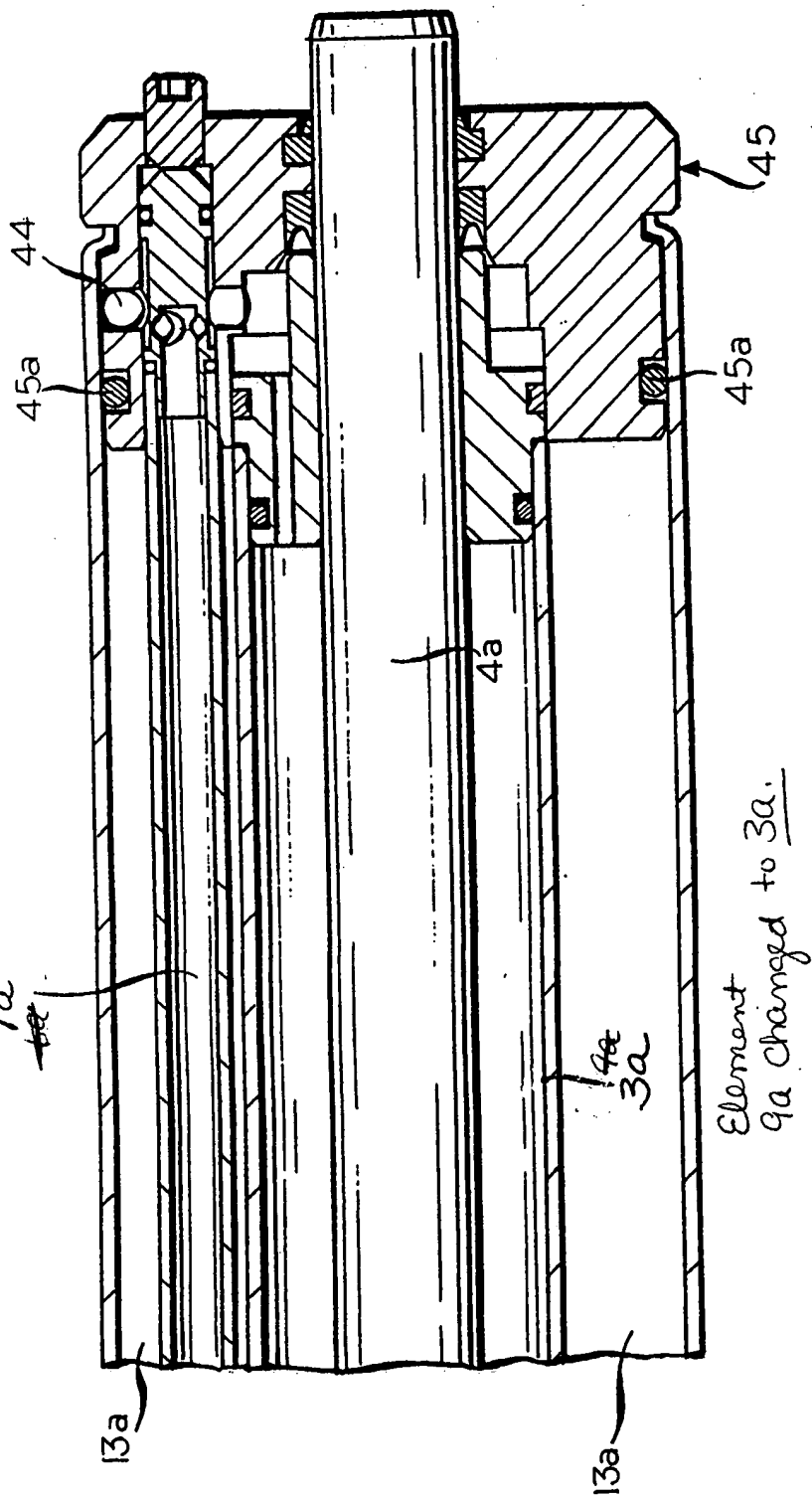
Element  
4a changed  
to 4b.





Original Charge be changed to 7a.

7a ~~6a~~



Element  
9a changed to 3a.

13a.

7

48

4a

45a

(45)

44.

45a

3a

01615

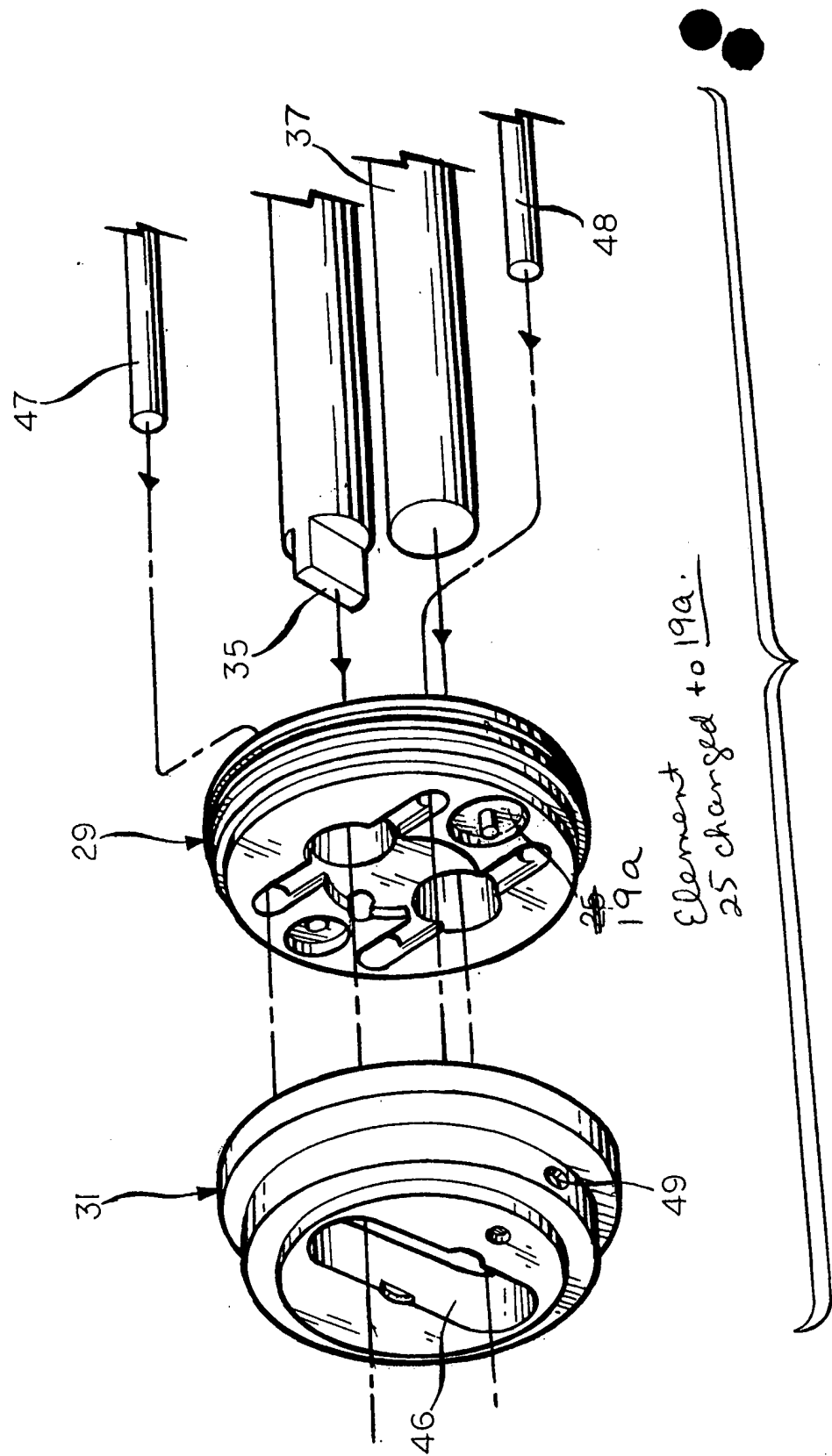


FIG.11

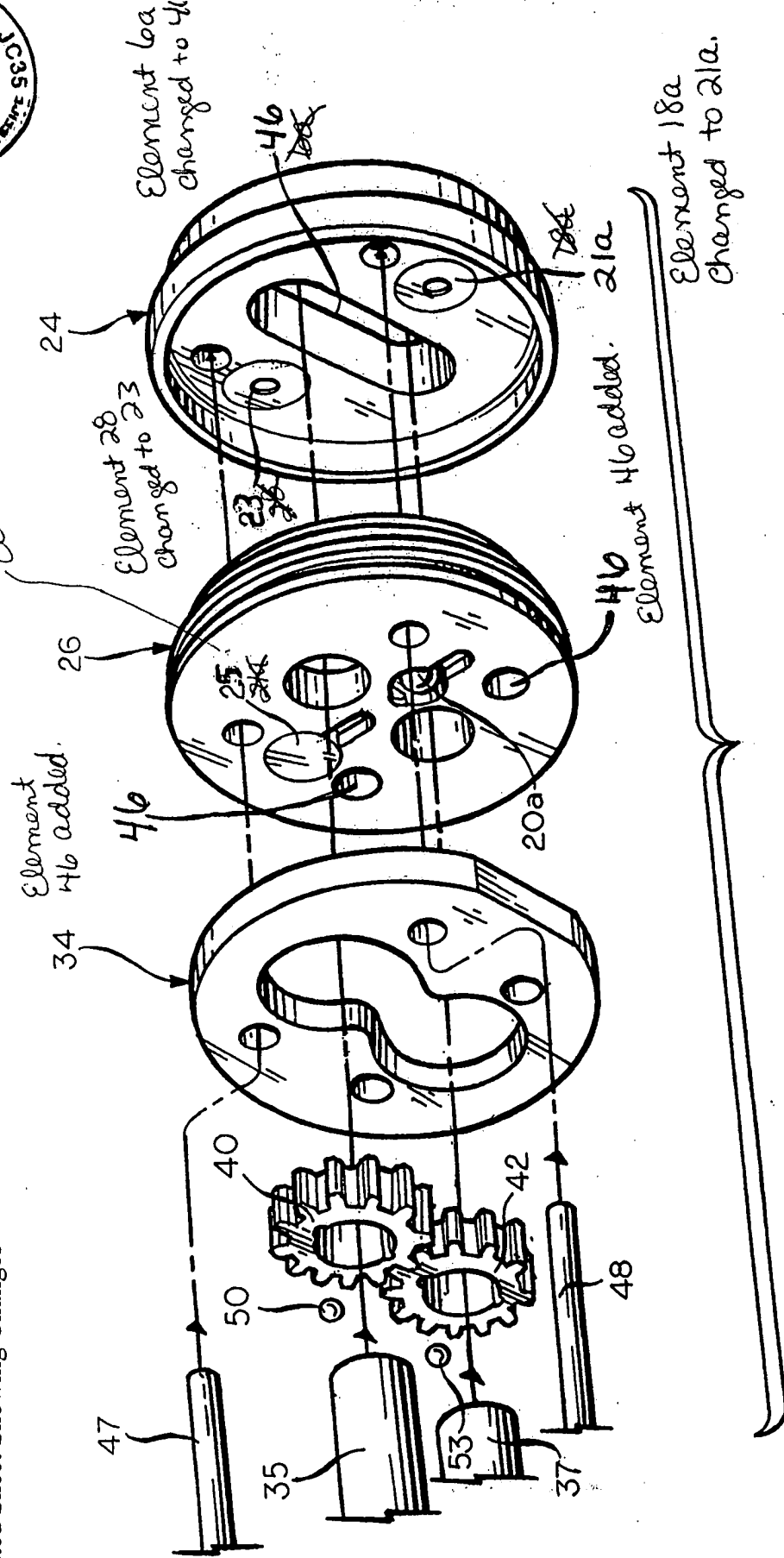


FIG. 12

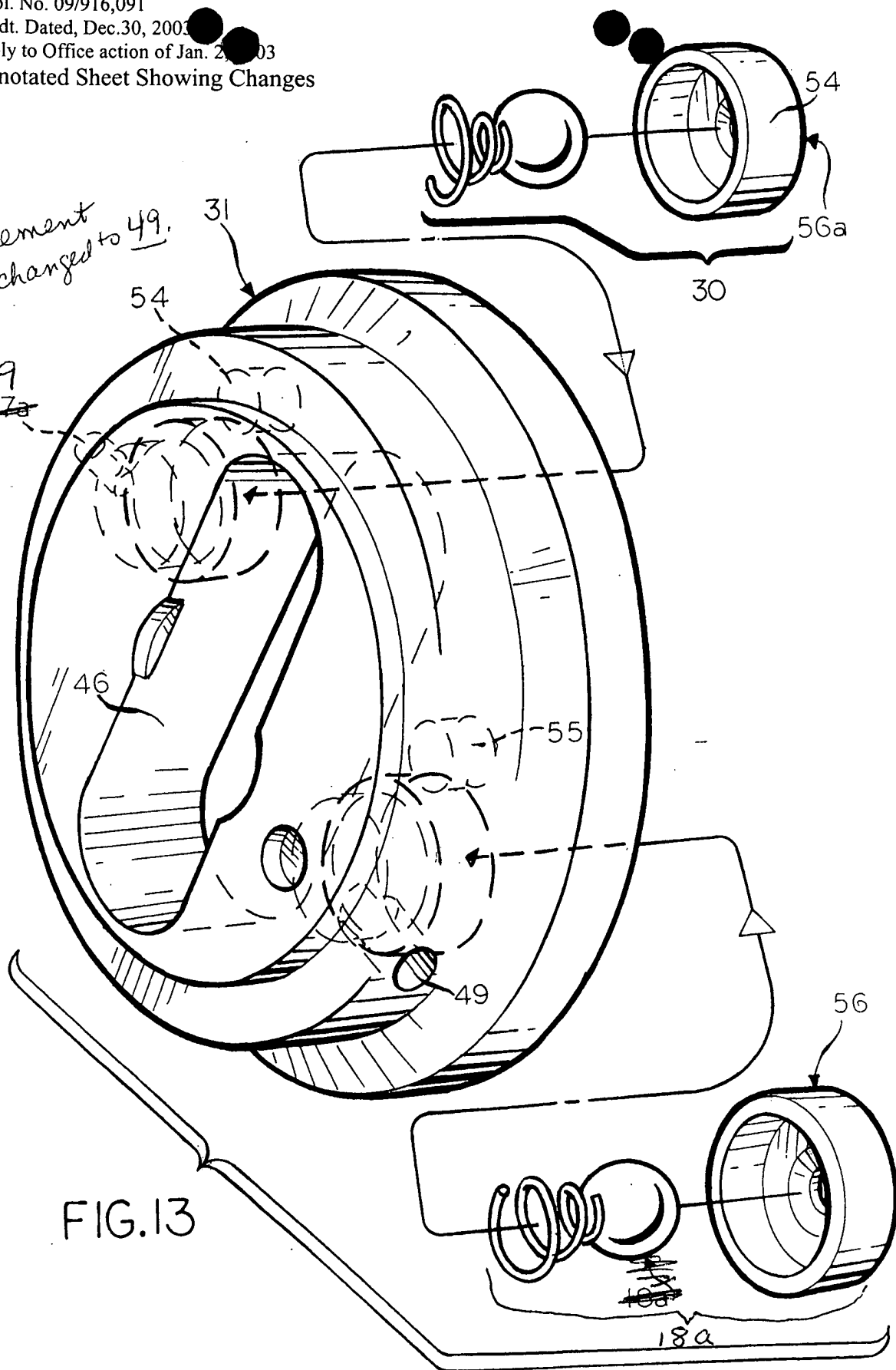


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Element  
7a changed to 49.

49  
7a

FIG.13



Element 18a changed to  
encompass the whole set  
appearing in the lower right  
hand corner instead of just  
the ball itself.

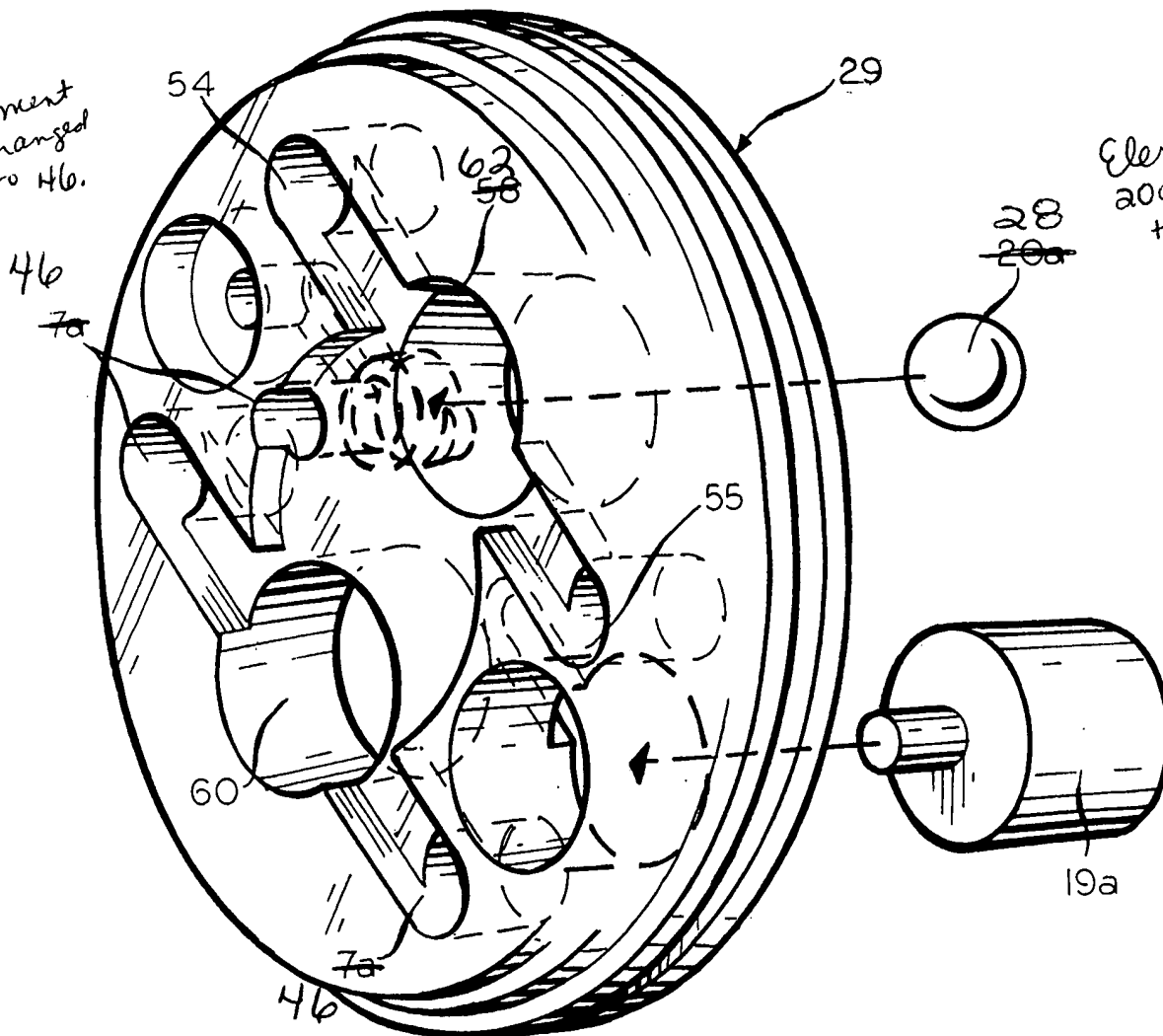


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Element  
58 changed to 62.

Element  
7a changed  
to 46.

Element  
20a changed  
to 28.



Element  
7a changed to 46.

FIG.14

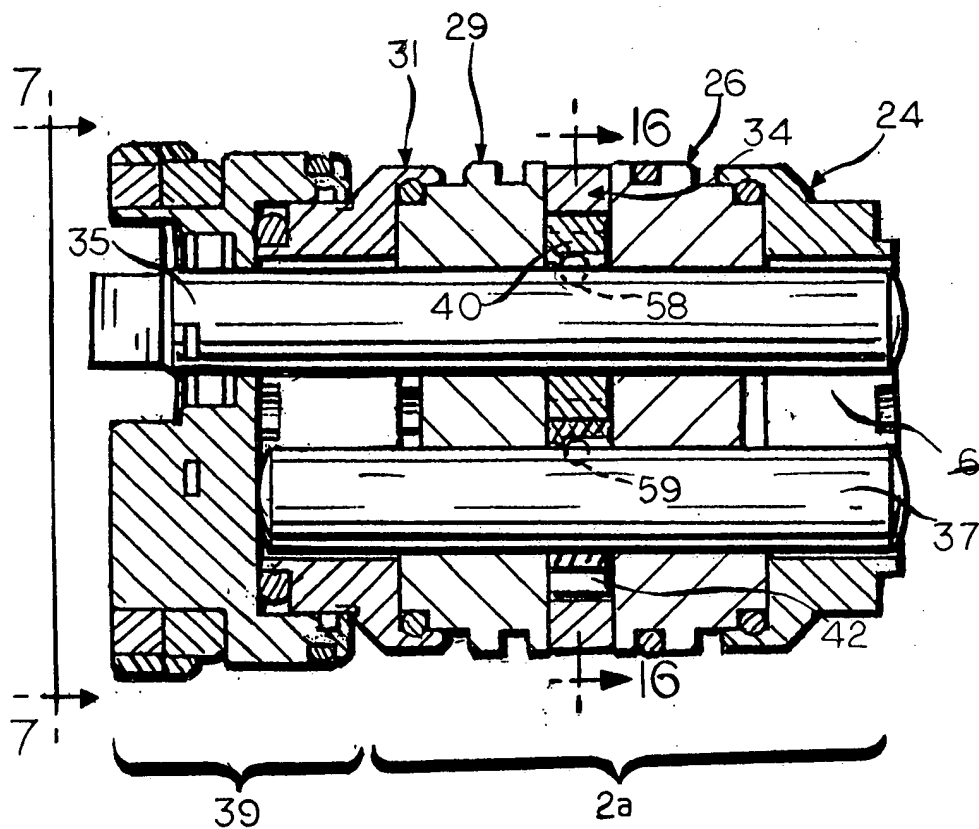


FIG. 15



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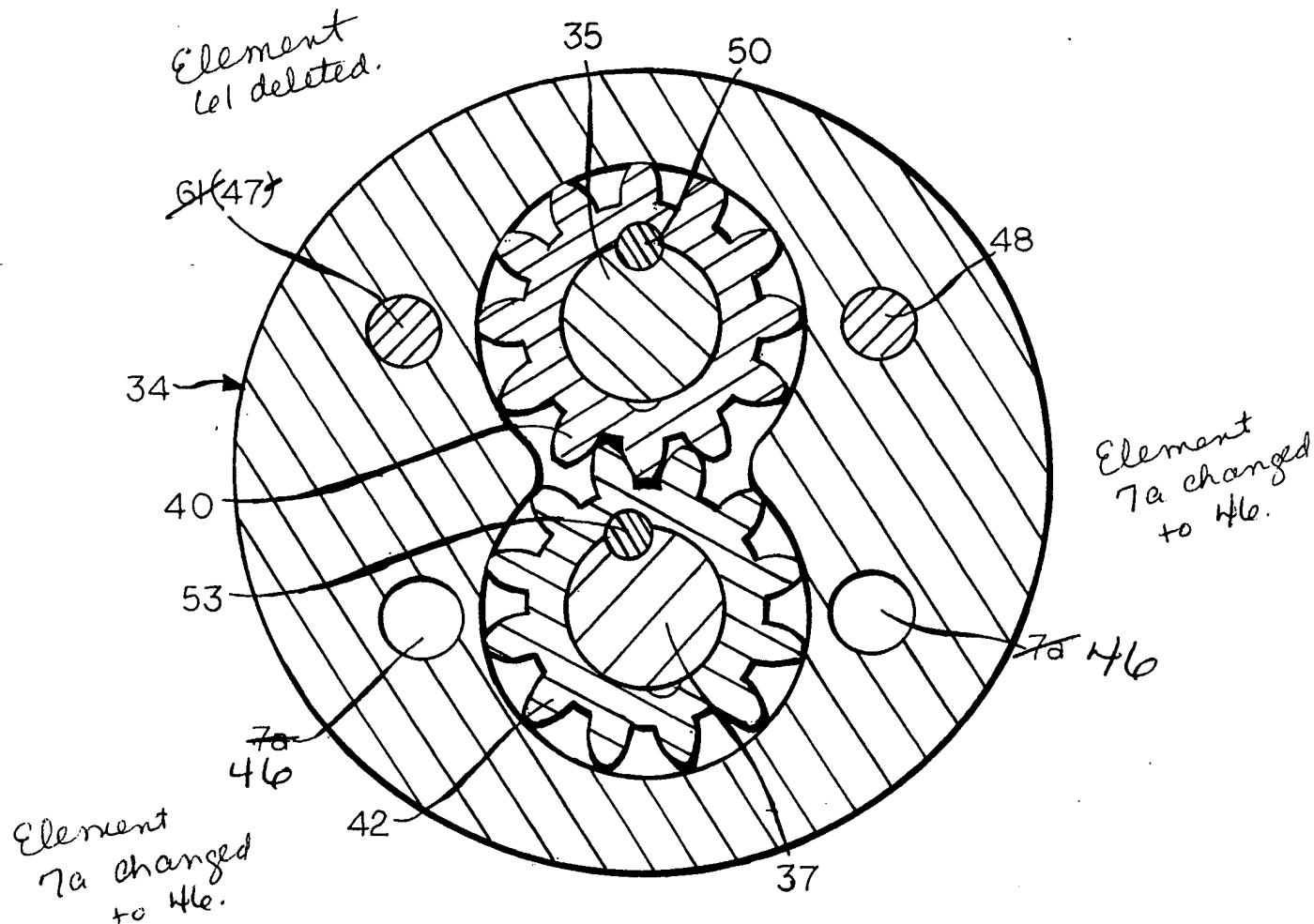


FIG. 16



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*Element  
26 added.*

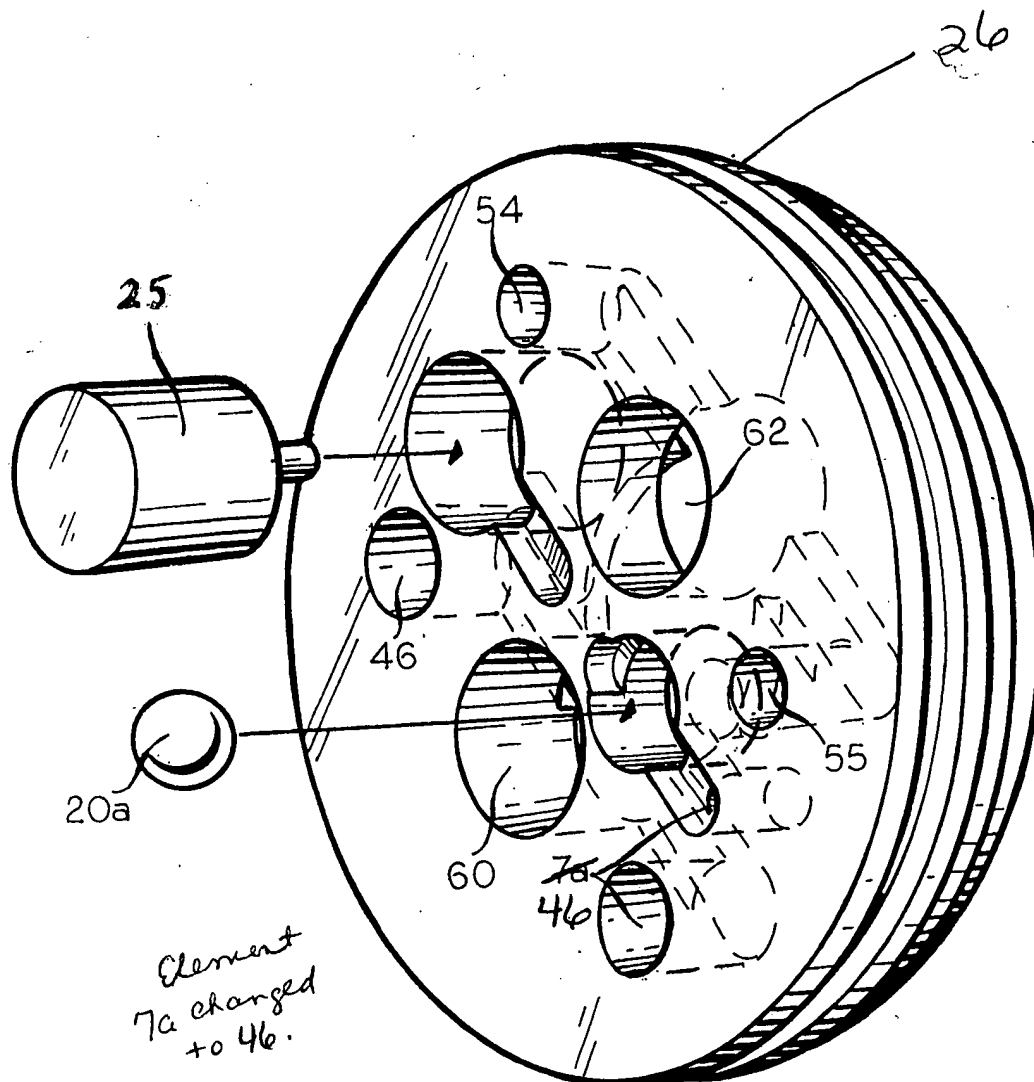


FIG.17





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 Cancelled in its Entirety

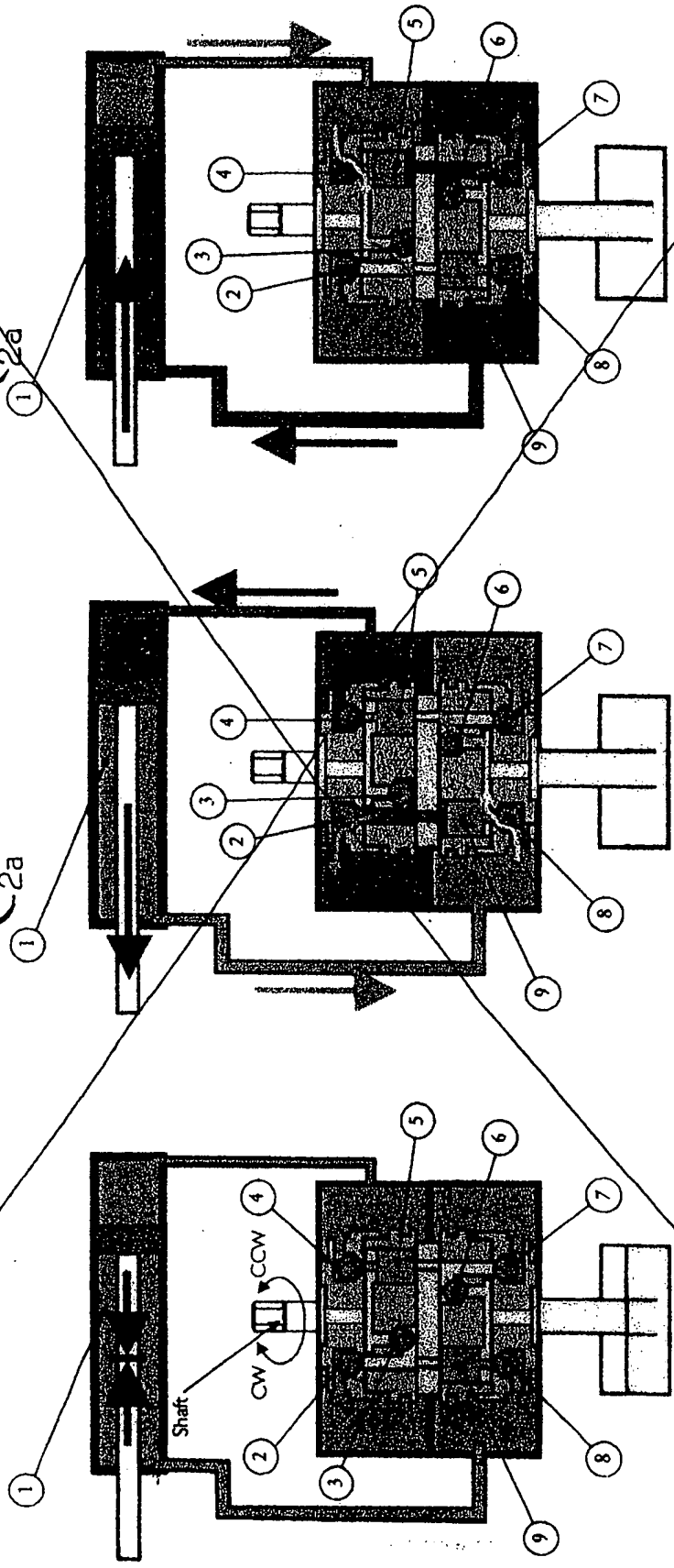
# DOUBLE ACTING BI-ROTATIONAL PUMP

LOCKED-3a

EXTEND-10a  
 counter  
 Pump rotating clockwise

RETRACT-11a  
 Pump rotating ~~counter~~ clockwise

Actuator hydraulically locked in position



Fluid connected to tank

Fluid locked in between actuator and pump

Fluid in return to tank, low pressure

Fluid high pressure working actuator

- 1. Hydraulic actuator
- 2. Check vlv out for extend
- 3. Suction check vlv for retract
- 4. Pilot check vlv for retract
- 5. Retract pilot piston

- 6. Suction check vlv for extend
- 7. Check vlv for retract
- 8. Pilot check vlv for extend
- 9. Extend pilot piston

FIG. 19



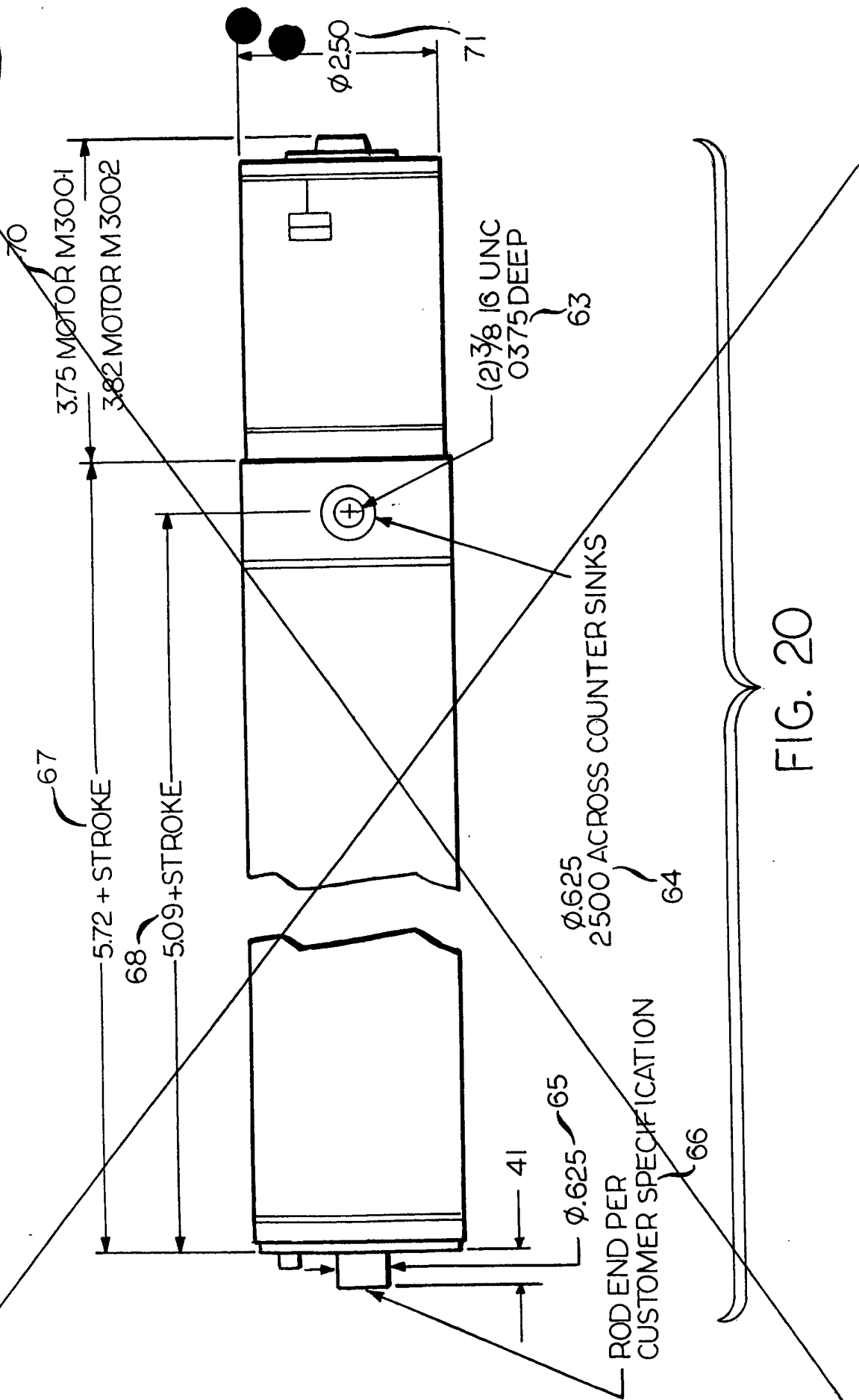


FIG. 20

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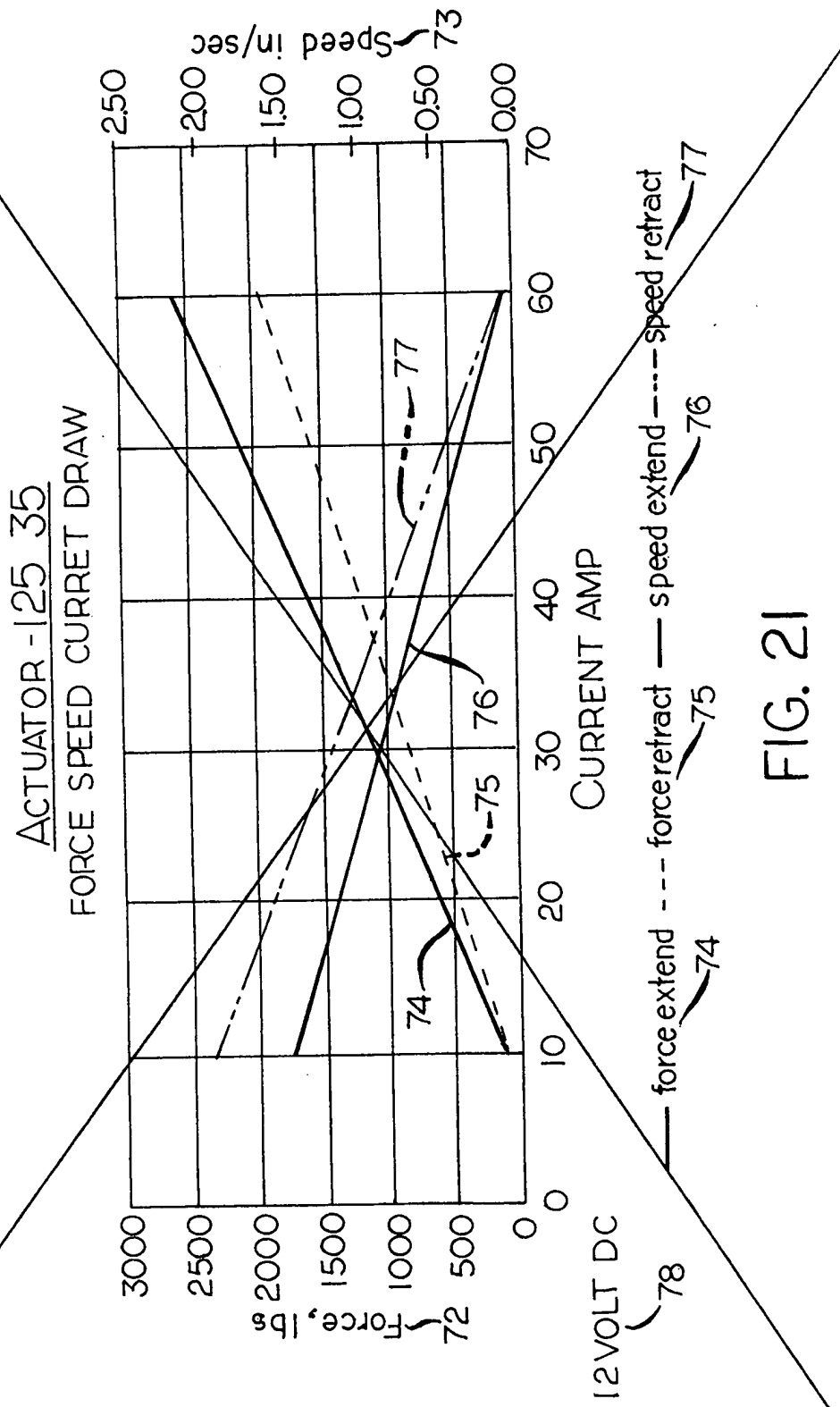


FIG. 21

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3  
 ACTUATOR 125 035 WEIGHT

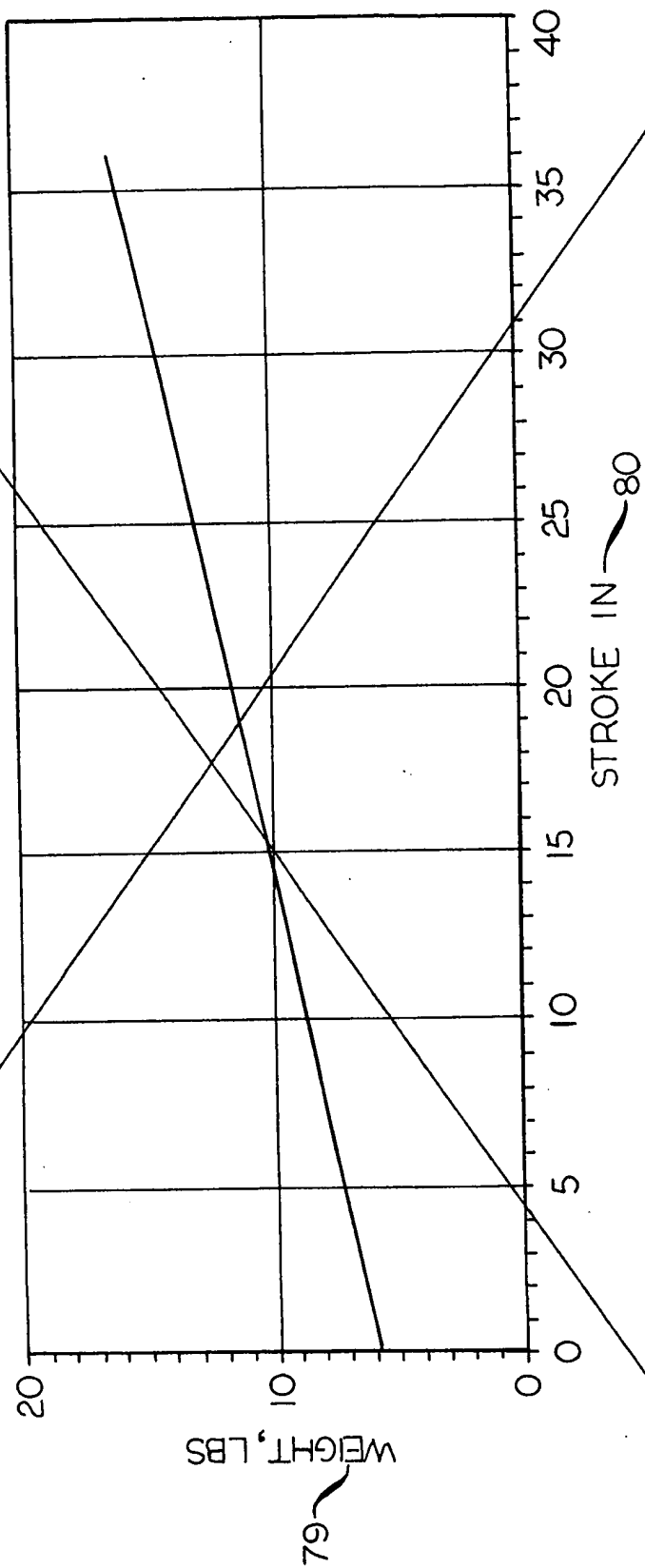


FIG. 22